NLP Pipeline

large-scale, parallel, multilingual and modularized

Multilingual text processing has never been so easy. Our Natural Language Processing pipeline is made of parallel, independent modules that make it possible to perform tasks like language recognition, tokenization, morphological analysis, part-of-speech tagging, lemmatization and named entity recognition. In addition, our pipeline also features:

- large scale, making it possible to process millions of texts in seconds
- **parallelism** of independent modules, which can run dozens of tasks independently
- availability both as an **online service** and as an **offline software package**

Thanks to its integration with our companion products, WordAtlas[®], Comprehendo[®] and Extraggo[®], our pipeline also operates at a deeper level of analysis, making the following operations possible: **term**, **concept** and **entity extraction**, **domain labelling** and **word sense disambiguation** and **entity linking**.

LANGUAGES SUPPORTED

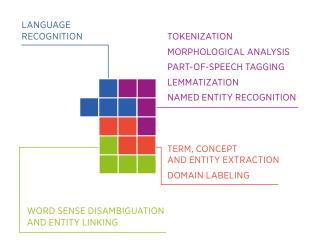
Our multilingual NLP Pipeline **fully supports 11 languages**:



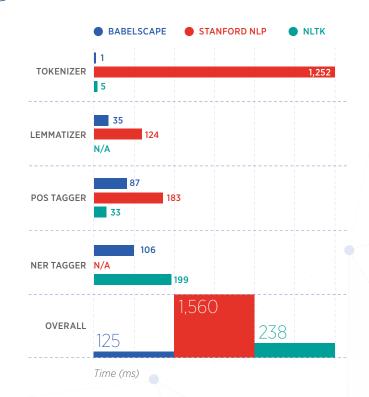
50 more languages are partially supported by a variable number of modules.

LI NLP PIPELINE **MODULES**

Babelscape's NLP pipeline includes modules which can be **accessed separately** and are integrated into the pipeline:



BABELSCAPE'S NLP PIPELINE **GOES FASTER!**

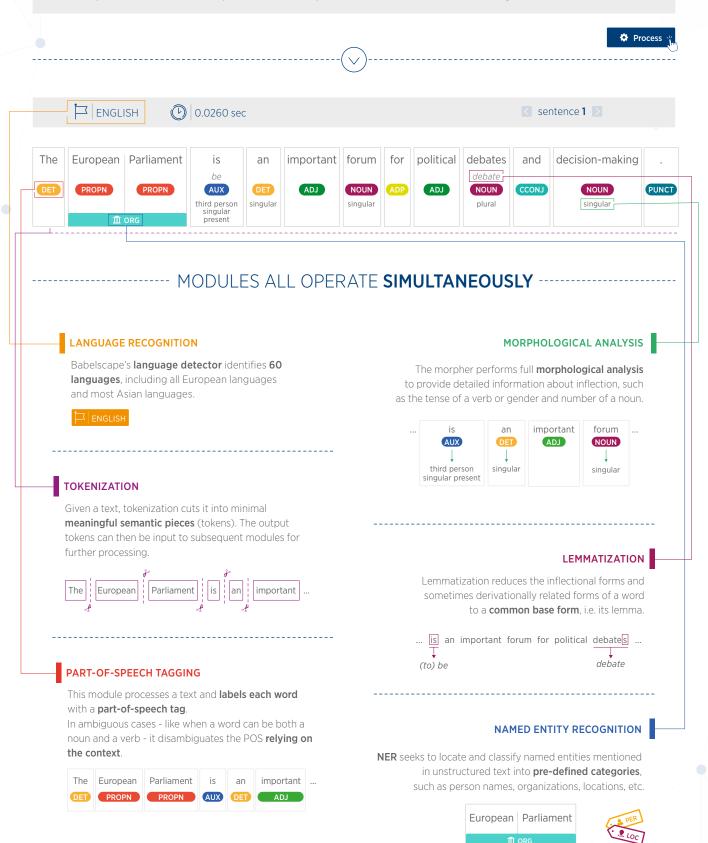


Babelscape

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How it works

The European Parliament is an important forum for political debates and decision-making.



Babelscape

------ MODULES THAT CAN BE **INTEGRATED** INTO THE PIPELINE

get the most out of your text processing by integrating our pipeline with other modules

WORD SENSE DISAMBIGUATION AND ENTITY LINKING

Identify the **proper meaning** of a dictionary word in a **given context** and link ambiguous words explicitly to **concepts and entities**.

Boost text analysis with **Comprehendo**[®], the core engine of Babelscape's **multilingual text understanding**. This system works both with standard text and text snippets and brings two main advantages:

- It enables the **semantic aggregation** of similar information written using different words, either in the same language, or in **different languages**
- It enables **discrimination between meanings** of the same word

Thanks to its semantic linkage to WordAtlas[®], text can be represented independently of the source language and compared across languages.



TERM, CONCEPT AND ENTITY EXTRACTION

Extract **key insights** from unstructured data independently of the languages used in the input. With **Extraggo**[®] - our state-of-the-art system for text processing - you can distill knowledge by:

- Extracting the **terms**, **key concepts** and **entities** involved in a text
- Interconnecting them in an intelligent way

DOMAIN LABELING

Get the core of any text and organize key concepts and domains with a seamless combination of **statistical and semantic techniques**. This module can:

- Rank by importance terms, concepts and entities
- Identify the **domains** of the text
- Generalize terms to concepts and named entities

Extraggo[®] makes it possible to **distill knowledge from text written in multiple languages** and it lets you organize and manage knowledge easily.



Scalability

With our pipeline you can go from zero to infinity: its scalability will **embrace every need**.

We have developed our pipeline giving priority to the highest levels of **vertical and horizontal scalability**. Our pipeline is ready to be used on cloud infrastructures through the use of the most used orchestrators.

Pricing

Our pipeline has been conceived with a **modular pricing model**, so as to be a **flexible solution** to your specific business requirements.

You can choose the **number of languages**, go for **online** vs. **offline** usage and add **extra modules**. Every company is unique, and that's why we will create a **customized plan** for you. Contact us at info@babelscape.com.



Babelscape

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